

HD CLAD[®] PRO

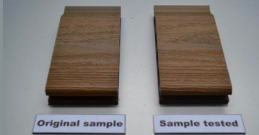
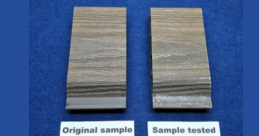
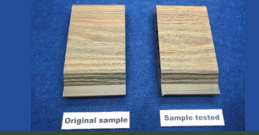
TECHNICAL SPECIFICATION

intertek
Total Quality. Assured.

For more information please visit our website
www.composite-prime.com

 **Composite Prime**[®]
Natural Evolution

TECHNICAL SPECIFICATION

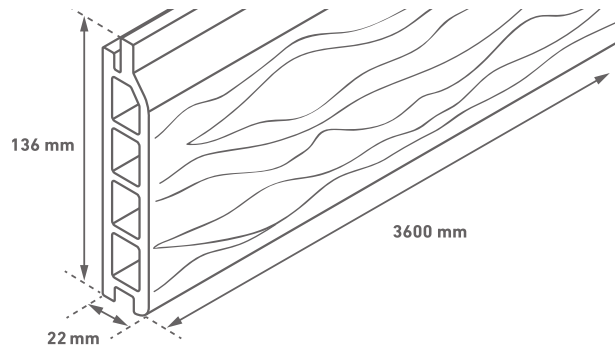
Test	Test Method	Test Description	HD CLAD® PRO	Test Requirement
Flexural Properties (350mm)	EN 15534-1:2014 Annex A EN 15534-5:2014 Section 4.5.2	Bending strength	21.3 MPa	Deflection under a load of 250 N Mean ≤ 5.0 mm
		Modulus of elasticity	3563 MPa	
		Deflection at 250N:	Mean: 0.75 mm Max: 0.92 mm	
Flexural Properties (350mm) - I Trim	EN 15534-1:2014 Annex A EN 15534-5:2014 Section 4.5.6	Modulus of elasticity in bending	1531 MPa	
Moisture Resistance Under Cyclic Test Conditions	EN 15534-1:2014 Section 8.3.2 EN 15534-5: 2014 Section 4.5.4	Original bending strength	21.3 MPa	Deflection under a load of 250N Mean ≤ 6.0 mm
		After conditioned	Mean Bending Strength: 19.5 MPa Decrease: 8%	
		Deflection at 250N	Mean: 0.68mm Max: 0.97 mm	
Resistance to Artificial Weathering	EN ISO 4892-3:2016 Cycle 1	Light Source: UVA-340 The Exposure cycle: - 8 hours dry, Irradiance: 0.76 W/m2/nm at 340 nm, Black-panel temperature: 60 °C ± 3 °C - 4 hours condensation, Irradiance: UV lamps off, Black-panel temperature: 50 °C ± 3 °C Test Duration: 300 hours	ΔL* = - 0.65 Δa* = 0.13 Δb* = -0.41 ΔE* = 0.90 Grey scale = 4 - 5	
		Light Source: UVA-340 The Exposure cycle: - 8 hours dry, Irradiance: 0.76 W/m2/nm at 340 nm, Black-panel temperature: 60 °C ± 3 °C - 4 hours condensation, Irradiance: UV lamps off, Black-panel temperature: 50 °C ± 3 °C Test Duration: 2000 hours	ΔL* = 2.04 Δa* = 0.12 Δb* = -0.60 ΔE* = 2.13 Grey scale = 3 - 4	
Degree of Chalking	EN 15534-1:2014 Section 10.1 EN 15534-5:2014 Section 4.5.6 EN ISO 4892-3:2016 Cycle 1	Weathering test for 2000 hours	After weathering test for 2000 hours, there was no visual chalking on surface	
Neutral Salt Spray Test	EN 15534-1:2014 Section 8.6 ISO 9227:2017 EN 15534-5:2014 Section 4.5.6	1. Solution: (50±5) g/L NaCl 2. PH Value: 6.5-7.2 3. Test Duration: 500 hours Neutral salt spray test (500 Hours, PH Value: 6.5-7.2)	ΔL* = -0.45 Δa* = 0.16 Δb* = 0.28 ΔE* = 0.56 Grey scale = 4 - 5	
Screw Withdrawal (Trim)	EN 15534-1:2014 Section 7.6 EN 15534-5:2014 Section 4.5.6 EN 13446:2002	Screw withdrawal 4mm Shank Diameter	Withdrawal capacity: 25.8 N/mm2	
Pull Through Resistance (I Trim)	EN 15534-5:2014 Section 4.5.6 EN 15534-1:2014 Section 7.7 EN 1383:2016		Resistance felt when pulling through a screw of 6mm head diameter through the hole. 15.5 N/mm2	
Impact Resistance	EN 15534-1:2014 Section 7.1.2.2 EN 15534-5:2014 Section 4.5.1	Falling Mass Impact Falling mass was 500g Drop height was 1000mm	Max Crack Length (mm): No crack Max Residual Indentation (mm): 0.46	No more than 1 test specimen out of 10 test specimens shall show a failure

TECHNICAL SPECIFICATION - continued

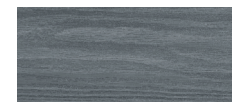
Test	Test Method	Test Description	HD CLAD [®] PRO	Test Requirement
Linear Thermal Expansion	EN 15534-1:2014 Section 9.2 EN 15534-5: 2014 Section 4.5.5	How much the samples expands under increasing temperature	34.9 .10 [^] (-6) K [^] (-1)	≤ 50 .10 [^] (-6) K [^] (-1)
Heat Reversion	EN 15534-1:2014 Section 9.3 EN 479:2018 EN 15534-5:2014 Section 4.5.6	Heat reversion with test temperature: 100 °C for 60 minutes	Mean: 0.13%	Test pieces placed horizontally in oven for 60 mins at 100°C
Heat Build Up	EN 15534-1:2014 Section 9.4 EN 15534-5:2014 Section 4.5.6	Test condition: ambient air temperature 23±2°C		
		Set temperature rise for use in horizontal position:	41 °C	
		Actual temperature rise for black control specimen:	40.6 °C	
		Temperature of test specimen:	38.2 °C	
		Predicted heat build-up ΔT:	-2.4 °C	
Fire Classification	EN 13501-1 EN ISO 11925-2:2010 Exposure = 15s	Ignitability Test	F _S ≤ 150 mm within 20 s Result = Yes Fire Behaviour Classification: E	
		Classification Criteria: F _S ≤ 150 mm within 20 s Additional Characteristics: Flaming Droplets / Particles	Ignition of paper Result = No Flaming Droplets Classification: d	
Water Absorption	EN 15534-1:2014 Section 8.3.3 EN 15534-5: 2014 Section 4.5.4	Boiling test	Water absorption in weight: Mean: 2.62% Max: 2.76%	Test Requirement Water absorption in weight: Mean ≤ 7% Max. ≤ 9%
		28 days immersion	Mean Swelling: 3.00% in thickness 0.15% in width 0.08% in length	Mean swelling: ≤ 10 % in thickness ≤ 1.5 % in width ≤ 0.6% in length
	Max. Swelling: 3.40% in thickness 0.16% in width 0.11% in length		Max swelling: ≤ 12 % in thickness ≤ 2 % in width ≤ 1.2% in length	
			Water absorption: Mean: 3.54% Max: 3.74%	Water absorption: Mean ≤ 8% Max. ≤ 10%

Board Dimensions

22 x 136 x 3600mm



Cedar Brown



Slate



Cedar Grey



Carbon



Recycled
Plastic

HDPE



Wood Flour is
FSC[®] 100% Certified

The mark of
responsible forestry